

## Restoration Alternatives for the Salton Sea



## The Salton Sea—California's Largest Lake

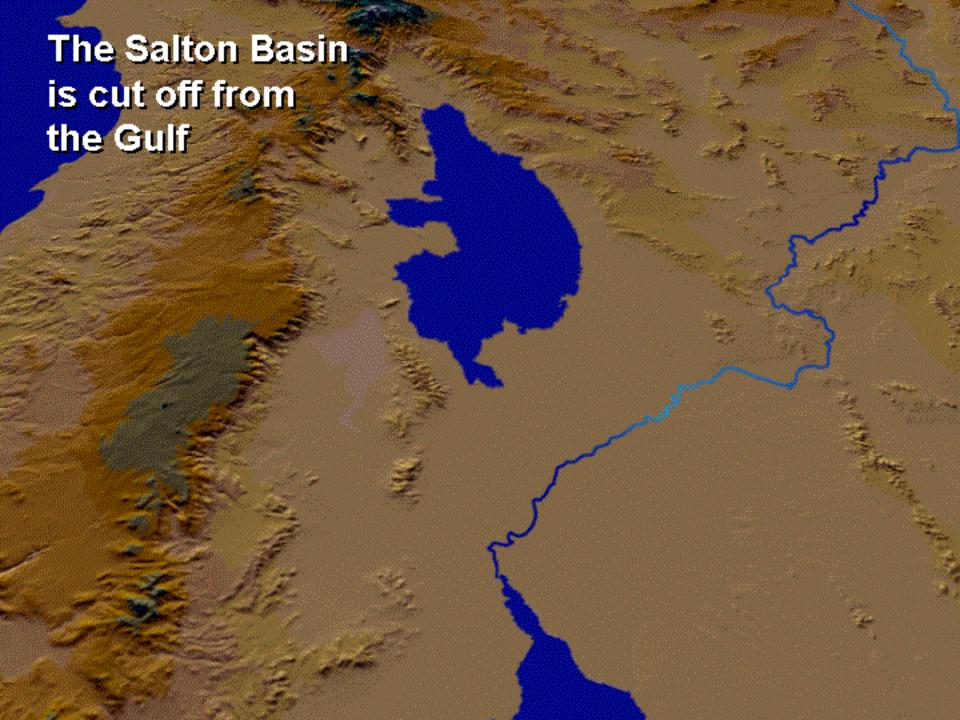
367 square miles 35 miles long, 15 miles wide, 51 feet deep

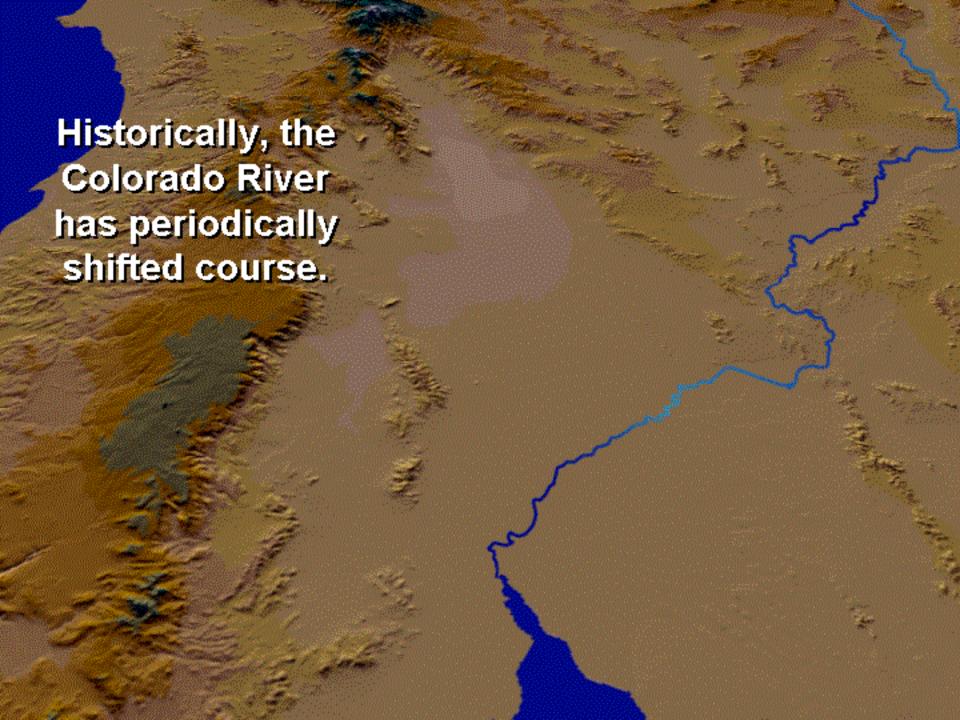


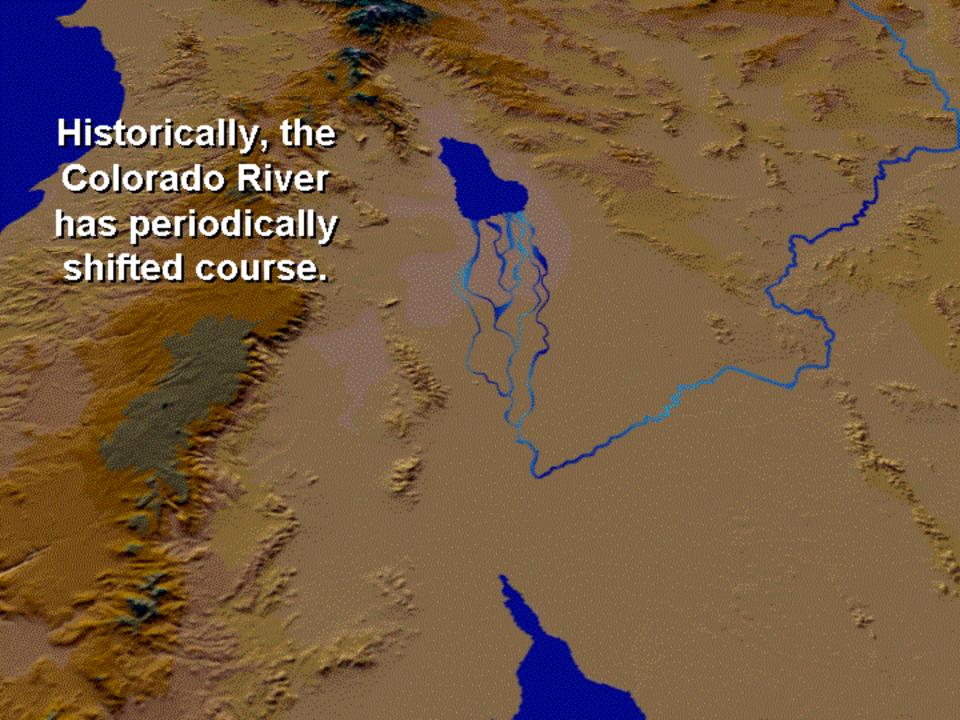


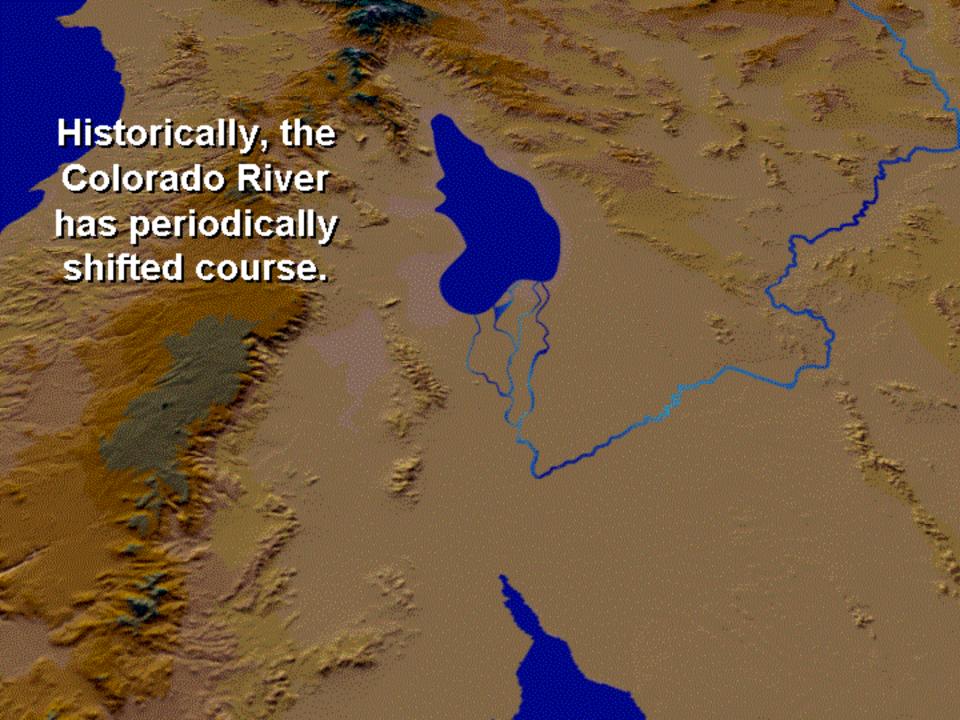


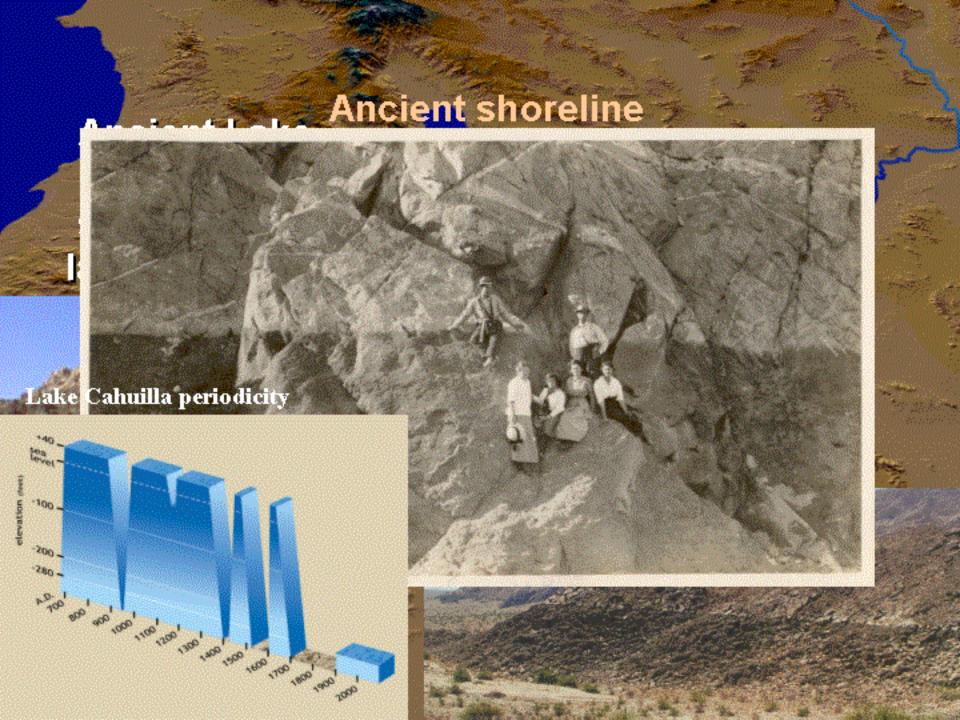


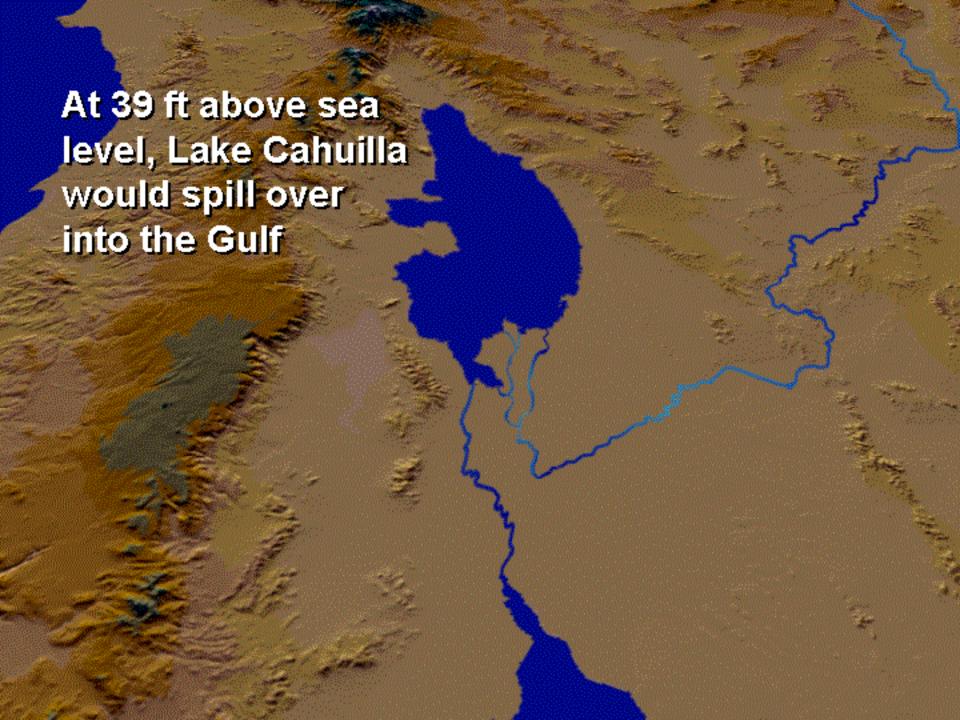




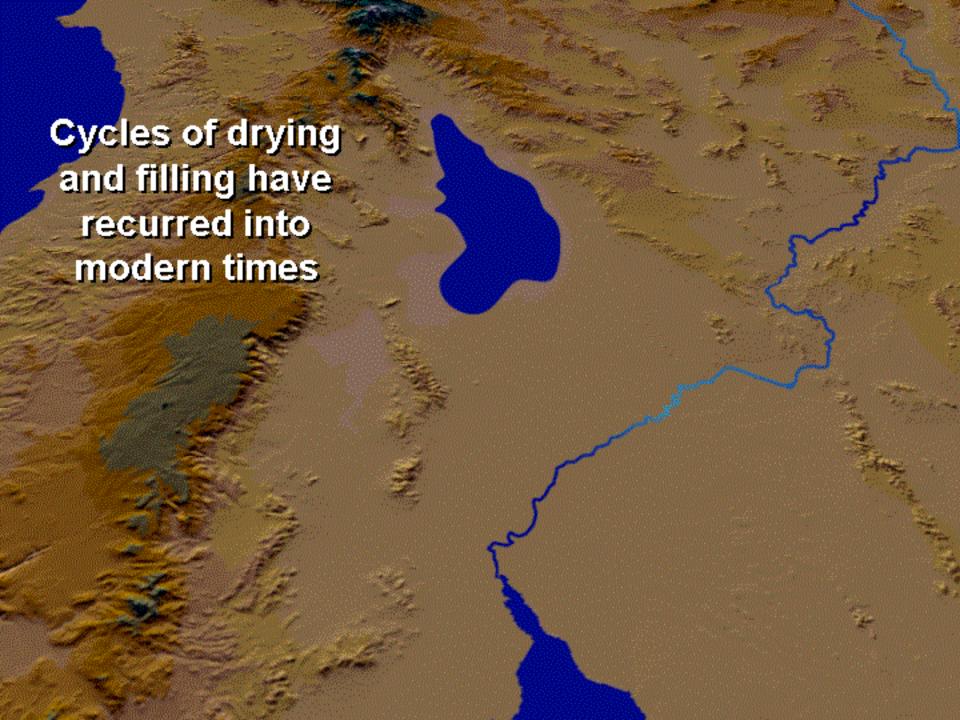




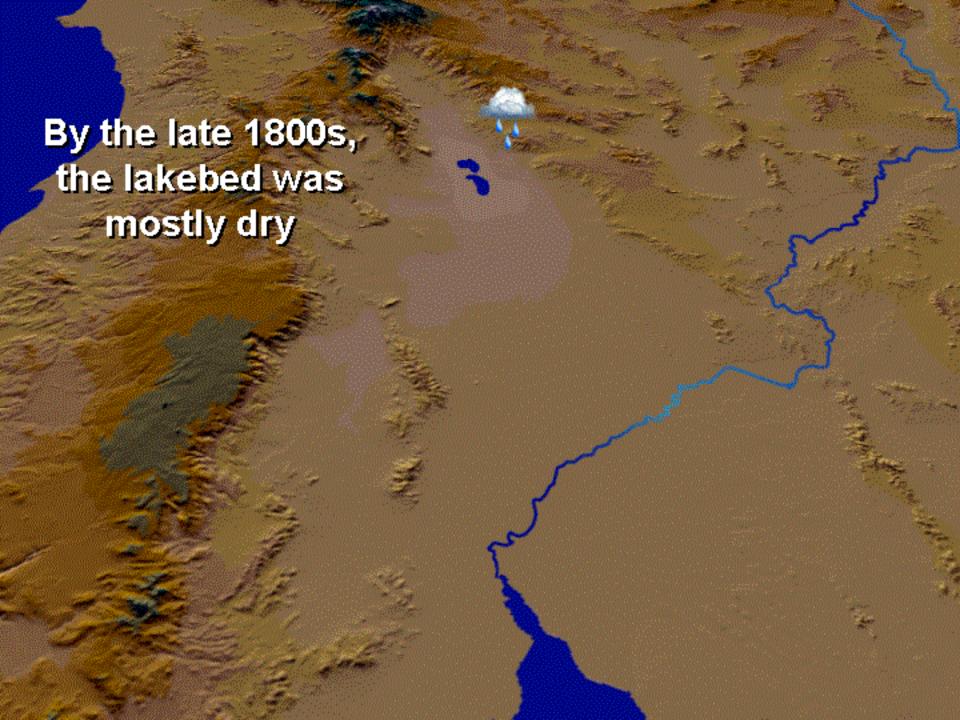


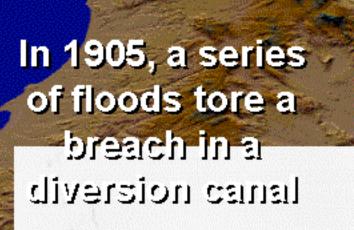


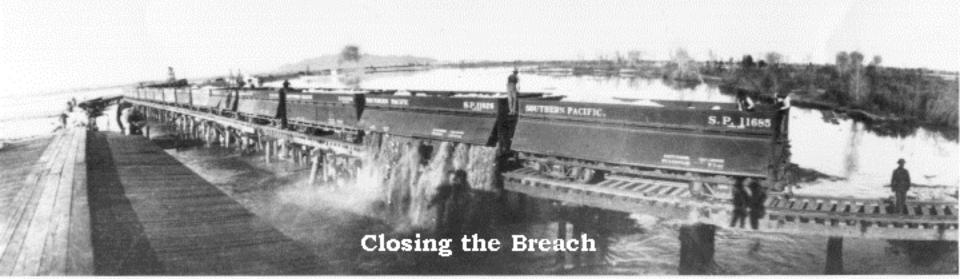




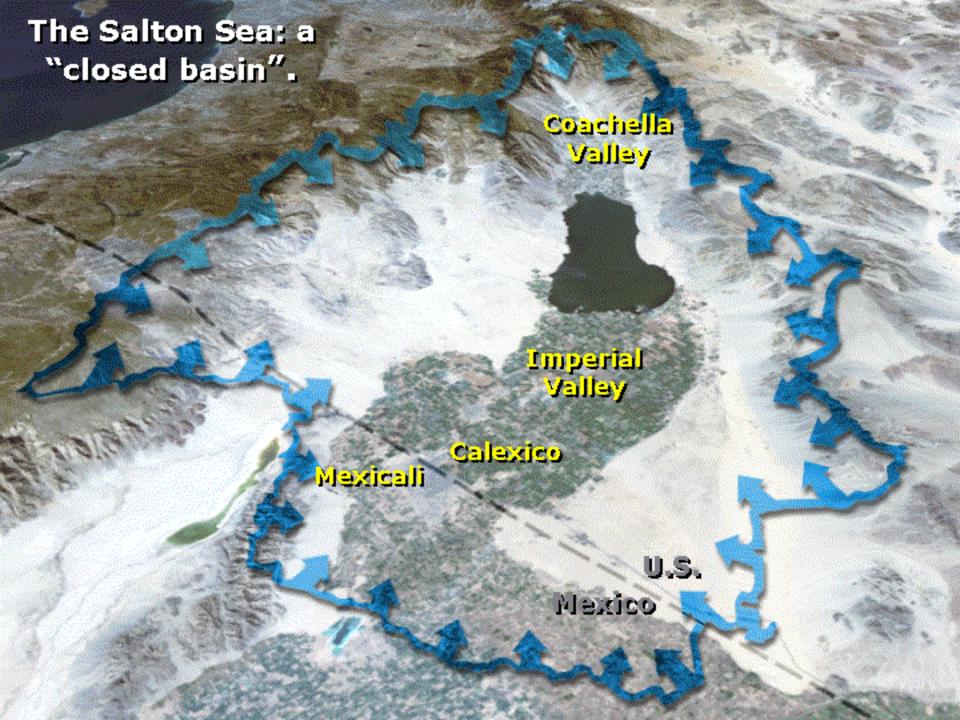




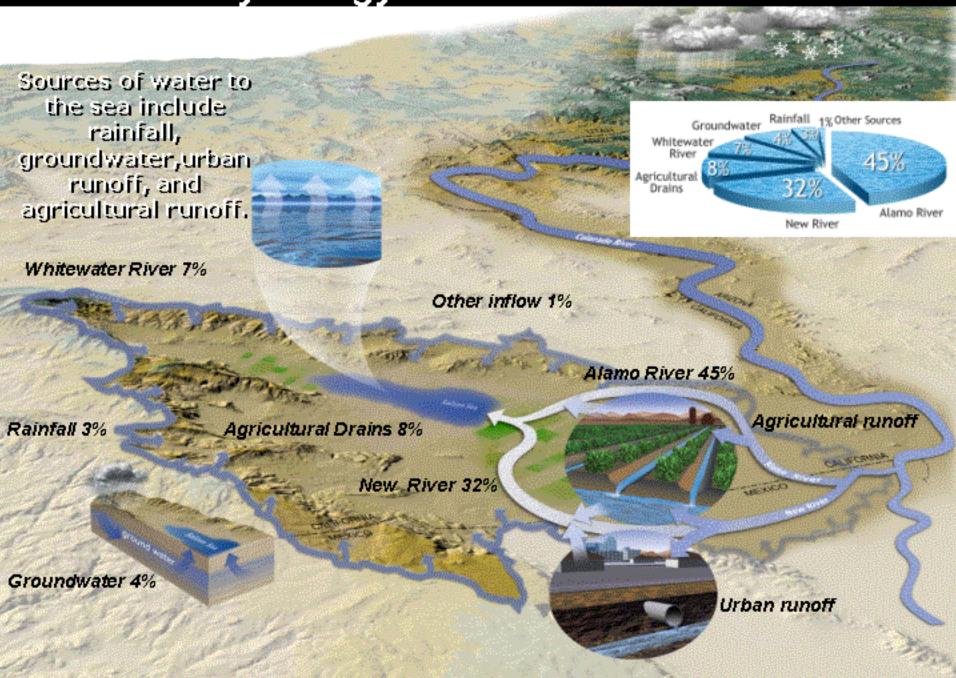




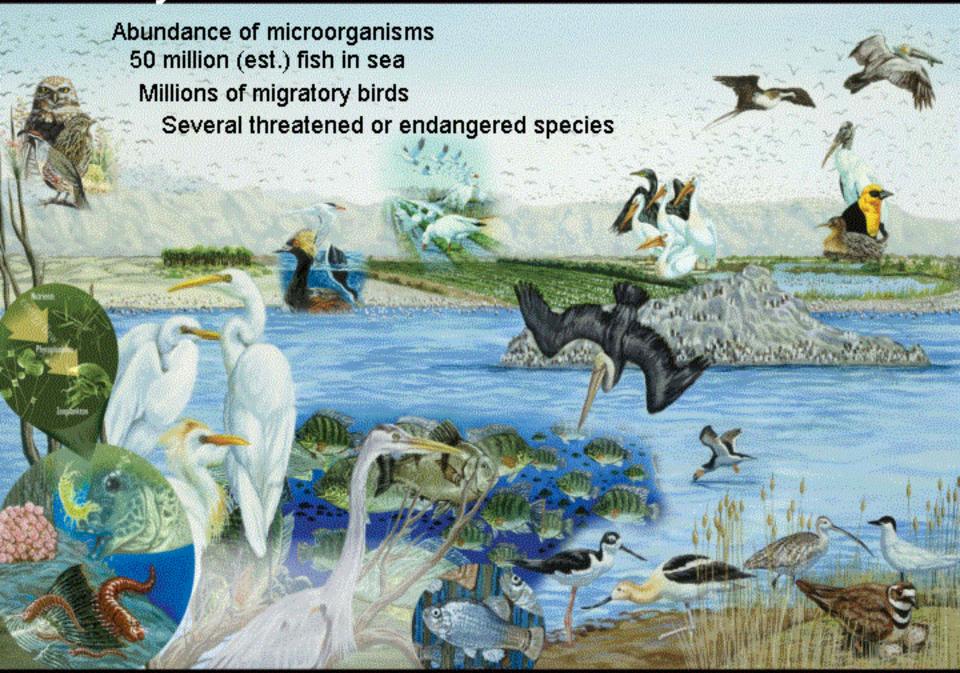




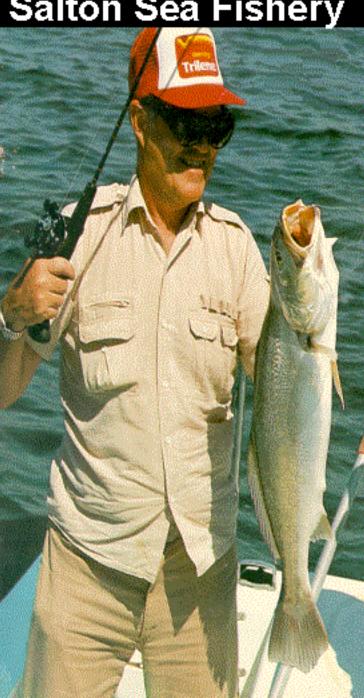
Salton Sea Hydrology



#### Diversity of Life



Salton Sea Fishery



#### Study: Salton Sea fishery healthier than previously believed

TOM VERDIN, Associated Press Writer

(04-20) 14:14 PDT SALTON CITY, Calif. (AP) -- New research disputes the widely held view that the Salton Sea, California's largest lake, is a chemical sump on the verge of ecological collapse.

The Salton Sea, the subject of intense restoration efforts, is home to one of the most productive fisheries in the world, and its fish appear healthier than previously thought, according to a new study.

It is the first broad study of the sea's fishery in half a century and comes after a separate analysis last year found no measurable amounts of herbicides or pesticides in the muck at the lake's bottom.

"We're coming to a consensus that the popularly conceived notions that the Salton Sea is dead or is dying are totally out of whack. If anything, the

be submitted by N Sea Authority, the coordinating rest Interior Departme

Periodic bird and Salton Sea and th have captured pul years.

But Costa-Pierce researchers, who January 1999, for and their apparen "pretty much of a

The study found to mile-long sea pro almost anywhere said Costa-Pierce National Oceanic Administration's

Mississippi and A

The findings are i

Salton Sea International Avian Airport Number of Banded Birds Scientists at the University of Redlands expected the bird banding data to illustrate the importance of the Salton Sea for birds migrating along the Pacific Flyway. However, the data clearly show a much broader significance of the Sea for migrating birds across all of Western North America. Flywny 20,000 bird band records Birds recovered from as far away as Russia and Peru INITED STATES 2/3 of all migrating birds in the continental U.S. visit the Salton Sea

#### Values Of Agriculture and Recreation

America's Winter 'Bread Basket' Over 6 million acres of farmland

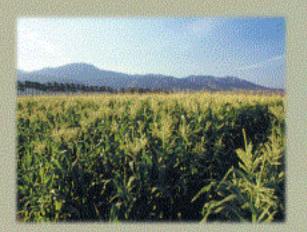


200,000 visitors annually





\$1.5 billion annual industry



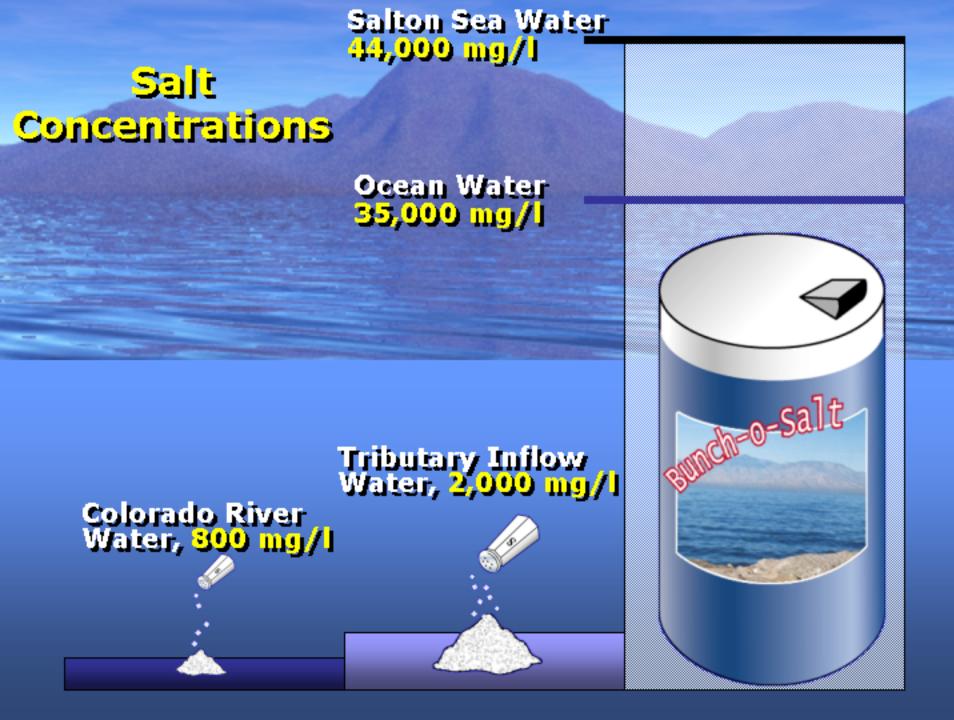
Bird watching, boating, fishing, and more











Impacts on Wildlife Rising Salinity Fishery Collapse Bird Die Offs (80 mal/y)160,000 140,000 Reduced Inflow Scenario (1.06 mat/yr) Current Inflow Scenario 40,000 20,000

#### **Restoration Goals**

Maintain for agricultural drainage
Safe environment for birds
Restore recreational uses
Maintain viable fishery
Enhance economic development

Solar Evaporation Ponds

Paid not to farm

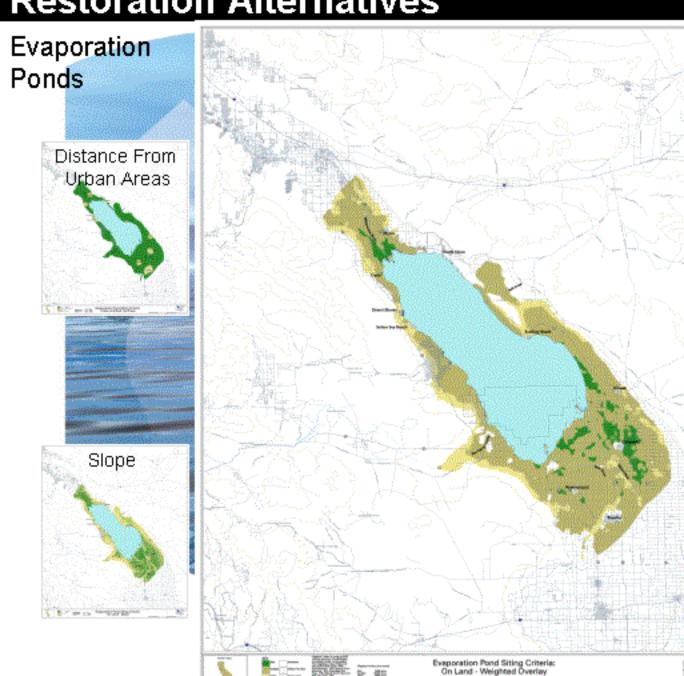


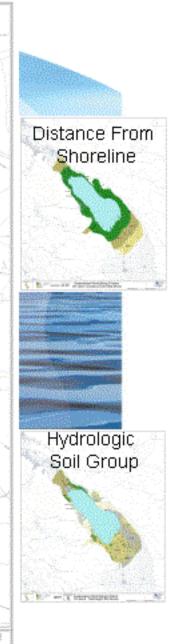
Enhanced Evaporation System (EES)

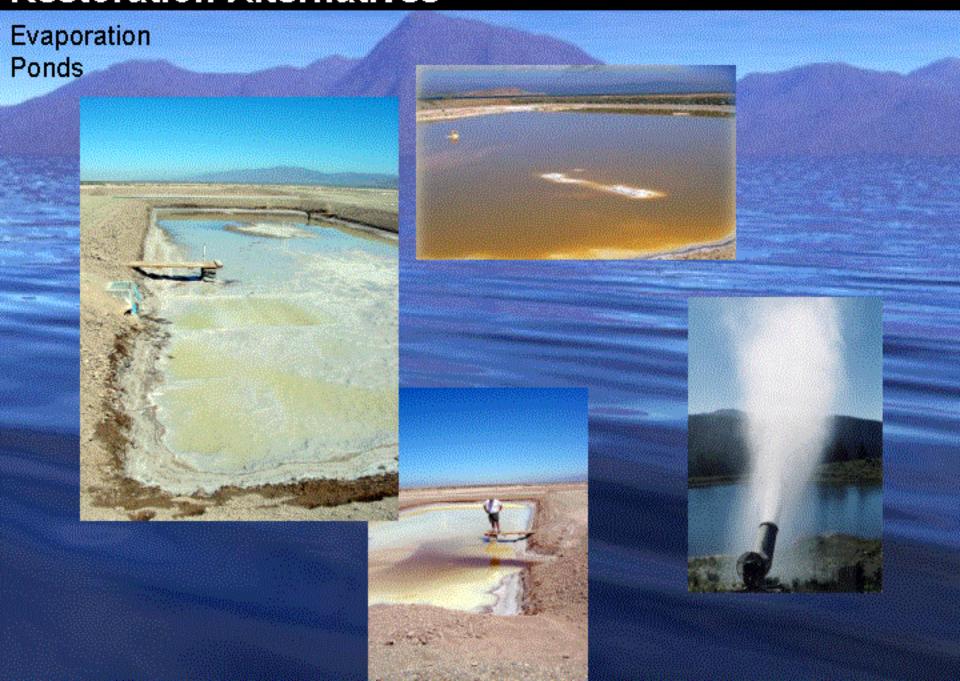
Desalination SALTWATE

Additional alternate inflows



















# Impacts on Air Quality Particulate Matter Due to Dry Lake Bed Very fine particles penetrate deep into the lungs and can travel long distances Studies link PM10 to respiratory disease May contain cancer-causing chemicals such as cadmium, arsenic, and others

